M. E. STECZYNSKI.

DRAFTING INSTRUMENT.

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1,243,568.

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Fig. 1.

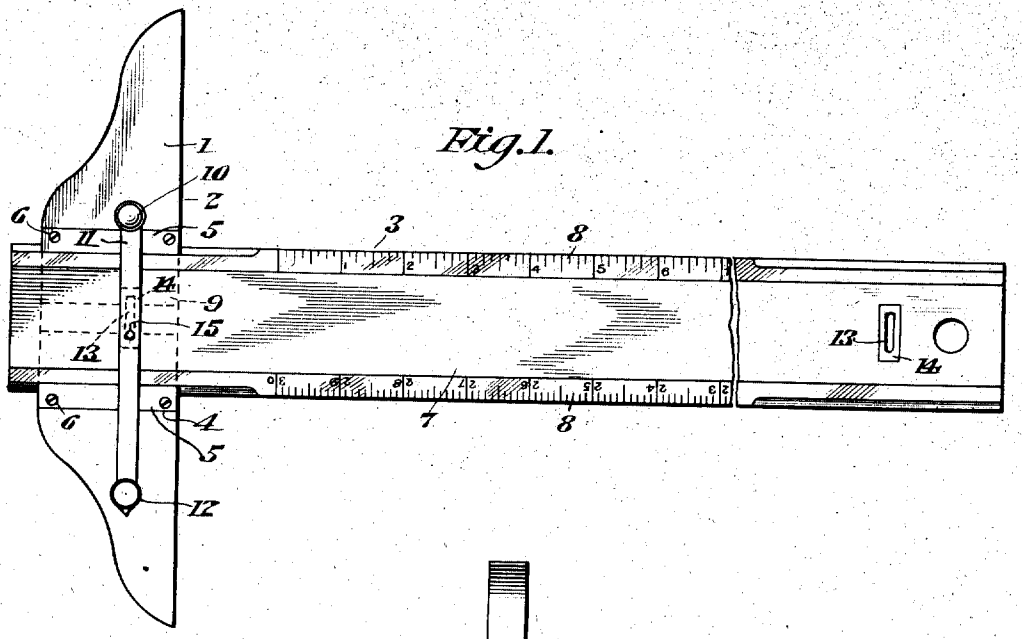
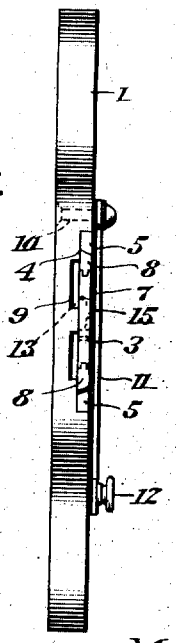


Fig. 2.



WITNESSES

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DRAFTING INSTRUMENT.

1,243,568. Specification of Letters Patent. Patented Oct. 16, 1917.

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To all whom it may concern:

Be it known that I, MYRON E. STECZYNSKI, a citizen of the United States, residing at Cambridge Springs, in the county of Crawford and State of Pennsylvania, have invented new and useful Improvements in Drafting Instruments, of which the following is a specification.

My invention relates to drafting instruments which are used in ruling and has for its objects; first, to provide an improved ruling instrument the component elements of which are slidably related whereby one element may be moved in relation to a stationary element in order that a scale on the moving element may be brought into proper registry with designated points of a drawing, and second, to provide a ruling instrument in which is incorporated a scale whereby the ordinary ruler may be dispensed with and a great saving of time and labor result.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which:—

Figure 1 is a top plan view of a T-square embodying my invention,

Fig. 2 is an enlarged end elevation of the device illustrated in Fig. 1.

Like characters of reference indicate like parts in the various views.

In the drawings 1 designates the head of a T-square having a straight surface 2 for engagement with the edge of a drawing board. A blade 3 is disposed at right angles to surface 2 of head 1 and is affixed to head 1 as hereinafter described. A transverse slot 4 is formed in the upper surface of head 1, the sides and bottom of said slot being at right angles to the surface 2 and the said sides being parallel to each other. At the sides of slots 4 the parallel strips 5 are secured one at each side by means of screws 6. The top surfaces of strips 5 are flush with top of head 1 and the opposing sides are slanted upwardly and inwardly thereby making slot 4 wider at its bottom than at its top. See Fig. 2. The ends of the edges of blade 3 are formed to fit snugly into slot 4 and are adapted to slide therein. The upwardly and inwardly slanted sides of strips 5 retain the blade 3 within the slot 4. Strips 5 are made of hard rubber or other wear resisting material. Blade 3 is composed of a center stiffening element 7 with edge members 8 of some transparent material such as celluloid. Longitudinal channels 9 are formed in the bottom of slot 4 to decrease the friction between slot 4 and blade 3. A stud 10 is affixed to head 1 at a convenient point and projects above the upper surface of head 1. A lever 11 is pivoted on said stud 10 and is secured to stud 10 by a nut screw threaded upon said stud 10. Lever 11 extends over the end of blade 3 and terminates in a knob 12 for convenient manipulation. A metal bushing 13 is affixed in blade 3 near the end thereof and has a transversely extending slot 14 formed in it. Affixed to lever 11 and extending downwardly therefrom is a stud 15 which engages said slot 14. Thus by moving the lever 11 the blade 3 is moved longitudinally and parallel to its edges.

On the under side of edge members 8 of blade 3 scales are inscribed which are apparent from above through transparent members 8. The scales upon the opposite members 8 have different graduations in order that the instrument may be used on drawings requiring these different graduations. A bushing 13 having a slot 14 is affixed in the other end of blade 3 so that the first mentioned end of blade 3 may be removed from slot 4 and the other end inserted therein to bring the other of members 8 into working position so that its differently graduated scale may be used. In removing blade 3 from slot 4 the lever 11 is removed by unscrewing nut 16 from stud 10.

In the operation of the device it is used as an ordinary T-square to draw longitudinal lines in various points in the drawings. When a specified longitudinal line of given length is to be drawn from a specified point the device is moved until the edge of blade 3 lies in a proper plane for drawing the line and lever 11 is manipulated to move blade 3 until one of the unit marks of the scale on member 8 coincides with the specified point. The line is then measured off on the scale and drawn, thus saving the time required to measure off the line with an ordinary scale and then moving the T-square into proper relation for drawing the line. Very little sliding movement is necessary to bring one of said unit marks on the scale to any point in the length of blade 3. Where an inch scale is used but one half an inch of movement is required.

When the slot 4 becomes loose upon blade

3 by reason of wear, thin strips of paper or other material may be placed between the sides of strips 5 and the sides of slot 4 by removing screws 6 and placing the paper in proper position and resecuring the strips 5 by replacement of screws 6. A snug sliding joint may be thus constantly maintained.

Having thus fully described my invention, I claim:

1. In a device of the class described, a stationary element, having a slot therein and which is provided with a bottom and parallel sides, strips affixed in said slot adjacent the sides thereof and having their opposed sides longitudinally parallel and slanting upwardly and inwardly toward each other, and a slidable element engaging the bottom of said slot and the slanting sides of said strips.

2. In a T-square, a stationary element, having a slot therein and which is provided with a bottom and parallel sides, strips affixed in said slots adjacent the sides thereof and having their opposed sides longitudinally parallel and slanting upwardly and inwardly toward each other, a slidable element engaging the bottom of said slot and the slanted sides of said strips, a scale mounted on the slidable element, and a hand lever pivotally mounted upon the stationary element and engaging the slidable element.

In testimony whereof I affix my signature.

MYRON E. STECZYNSKI.